

**ABSTRACT**

In a power generator (20) including a rotor (21), a stator (magnetic core) (22) and a coil (23), a formula (1) including hysteresis loss coefficient  $k_h$ , eddy-current loss coefficient  $k_e$ , resistivity  $\rho$  ( $\Omega \cdot m$ ), frequency  $f$  (Hz) and maximum amplitude magnetic flux density  $B_m$  (T) is applied in setting plate thickness of the stator (22). Since the plate thickness (d) (m) of the stator (22) is set to the minimum iron loss plate thickness (d) obtained by the formula (1), the iron loss of the magnetic circuit of the power generator can be reduced, thereby improving efficiency of the power generator.